



NPR 11A-9 596  
 Plan #2 (3-06-18)  
 8:31, March 15 2018

Azimuths to True North  
 Magnetic North: 9.62°

Magnetic Field  
 Strength: 51485.2snT  
 Dip Angle: 65.85°  
 Date: 3/15/2018  
 Model: HDGM

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SHL 1687'FNL, 2478'FWL, SEC.9	1.0	0.0	0.0	39.632209	-108.174097	Point
BHL 219'FNL, 1317'FWL, SEC.9	10062.0	1466.5	-1162.2	39.636234	-108.178223	Ellipse (Radii: L200.0 W100.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	879.8	17.39	327.01	870.9	73.3	-47.5	3.00	327.01	86.9	
4	6390.9	17.39	327.01	6130.1	1455.1	-944.5	0.00	0.00	1727.0	
5	6970.7	0.00	0.00	6701.0	1528.4	-992.0	3.00	180.00	1814.0	
6	7294.7	3.24	250.00	7024.9	1525.3	-1000.6	1.00	250.00	1816.9	
7	10336.8	3.24	250.00	10062.0	1466.5	-1162.2	0.00	0.00	1871.1	BHL 219'FNL, 1317'FWL, SEC.9



## Directional

### **Caerus Oil and Gas LLC**

**SEC.9-T5S-R96W**

**NPR G09 596 Pad Sec.9-T5S-R96W**

**NPR 11A-9 596**

**Wellbore #1**

**Plan: Plan #2 (3-06-18)**

### **Standard Planning Report**

**15 March, 2018**

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 11A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 11A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

<b>Project</b>	SEC.9-T5S-R96W, Garfield County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		Using Well Reference Point
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		Using geodetic scale factor

<b>Site</b>	NPR G09 596 Pad Sec.9-T5S-R96W				
<b>Site Position:</b>	<b>Northing:</b>	14,404,590.33 usft	<b>Latitude:</b>	39.632067	
<b>From:</b> Lat/Long	<b>Easting:</b>	2,436,015.01 usft	<b>Longitude:</b>	-108.174492	
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.80 °

<b>Well</b>	NPR 11A-9 596					
<b>Well Position</b>	<b>+N/-S</b>	51.6 ft	<b>Northing:</b>	14,404,645.40 usft	<b>Latitude:</b>	39.632209
	<b>+E/-W</b>	111.1 ft	<b>Easting:</b>	2,436,124.43 usft	<b>Longitude:</b>	-108.174097
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	0.0 ft	<b>Ground Level:</b>	7,640.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	3/15/2018	9.62	65.85	51,485

<b>Design</b>	Plan #2 (3-06-18)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	321.60

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
879.8	17.39	327.01	870.9	73.3	-47.5	3.00	3.00	0.00	327.01	
6,390.9	17.39	327.01	6,130.1	1,455.1	-944.5	0.00	0.00	0.00	0.00	
6,970.7	0.00	0.00	6,701.0	1,528.4	-992.0	3.00	-3.00	0.00	180.00	
7,294.7	3.24	250.00	7,024.9	1,525.3	-1,000.6	1.00	1.00	-33.95	250.00	
10,336.8	3.24	250.00	10,062.0	1,466.5	-1,162.2	0.00	0.00	0.00	0.00	BHL 219'FNL, 1317'F

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 11A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 11A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>SHL 1687'FNL, 2478'FWL, SEC.9</b>										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	3.00	327.01	400.0	2.2	-1.4	2.6	3.00	3.00	0.00	
500.0	6.00	327.01	499.6	8.8	-5.7	10.4	3.00	3.00	0.00	
600.0	9.00	327.01	598.8	19.7	-12.8	23.4	3.00	3.00	0.00	
700.0	12.00	327.01	697.1	35.0	-22.7	41.5	3.00	3.00	0.00	
800.0	15.00	327.01	794.3	54.6	-35.4	64.8	3.00	3.00	0.00	
879.8	17.39	327.01	870.9	73.3	-47.5	86.9	3.00	3.00	0.00	
900.0	17.39	327.01	890.2	78.3	-50.8	93.0	0.00	0.00	0.00	
1,000.0	17.39	327.01	985.6	103.4	-67.1	122.7	0.00	0.00	0.00	
1,100.0	17.39	327.01	1,081.1	128.5	-83.4	152.5	0.00	0.00	0.00	
1,200.0	17.39	327.01	1,176.5	153.5	-99.7	182.2	0.00	0.00	0.00	
1,300.0	17.39	327.01	1,271.9	178.6	-115.9	212.0	0.00	0.00	0.00	
1,400.0	17.39	327.01	1,367.3	203.7	-132.2	241.8	0.00	0.00	0.00	
1,500.0	17.39	327.01	1,462.8	228.8	-148.5	271.5	0.00	0.00	0.00	
1,600.0	17.39	327.01	1,558.2	253.8	-164.8	301.3	0.00	0.00	0.00	
1,700.0	17.39	327.01	1,653.6	278.9	-181.0	331.0	0.00	0.00	0.00	
1,800.0	17.39	327.01	1,749.1	304.0	-197.3	360.8	0.00	0.00	0.00	
1,900.0	17.39	327.01	1,844.5	329.1	-213.6	390.6	0.00	0.00	0.00	
2,000.0	17.39	327.01	1,939.9	354.1	-229.9	420.3	0.00	0.00	0.00	
2,087.1	17.39	327.01	2,023.0	376.0	-244.0	446.2	0.00	0.00	0.00	
<b>WASATCH.MBL</b>										
2,100.0	17.39	327.01	2,035.3	379.2	-246.1	450.1	0.00	0.00	0.00	
2,200.0	17.39	327.01	2,130.8	404.3	-262.4	479.8	0.00	0.00	0.00	
2,300.0	17.39	327.01	2,226.2	429.4	-278.7	509.6	0.00	0.00	0.00	
2,400.0	17.39	327.01	2,321.6	454.4	-295.0	539.4	0.00	0.00	0.00	
2,500.0	17.39	327.01	2,417.1	479.5	-311.2	569.1	0.00	0.00	0.00	
2,586.9	17.39	327.01	2,500.0	501.3	-325.4	595.0	0.00	0.00	0.00	
<b>9 5/8"</b>										
2,600.0	17.39	327.01	2,512.5	504.6	-327.5	598.9	0.00	0.00	0.00	
2,700.0	17.39	327.01	2,607.9	529.7	-343.8	628.6	0.00	0.00	0.00	
2,800.0	17.39	327.01	2,703.3	554.7	-360.0	658.4	0.00	0.00	0.00	
2,900.0	17.39	327.01	2,798.8	579.8	-376.3	688.2	0.00	0.00	0.00	
3,000.0	17.39	327.01	2,894.2	604.9	-392.6	717.9	0.00	0.00	0.00	
3,100.0	17.39	327.01	2,989.6	630.0	-408.9	747.7	0.00	0.00	0.00	
3,200.0	17.39	327.01	3,085.0	655.0	-425.1	777.4	0.00	0.00	0.00	
3,300.0	17.39	327.01	3,180.5	680.1	-441.4	807.2	0.00	0.00	0.00	
3,400.0	17.39	327.01	3,275.9	705.2	-457.7	836.9	0.00	0.00	0.00	
3,500.0	17.39	327.01	3,371.3	730.3	-474.0	866.7	0.00	0.00	0.00	
3,600.0	17.39	327.01	3,466.8	755.3	-490.2	896.5	0.00	0.00	0.00	
3,700.0	17.39	327.01	3,562.2	780.4	-506.5	926.2	0.00	0.00	0.00	
3,800.0	17.39	327.01	3,657.6	805.5	-522.8	956.0	0.00	0.00	0.00	
3,900.0	17.39	327.01	3,753.0	830.6	-539.1	985.7	0.00	0.00	0.00	
4,000.0	17.39	327.01	3,848.5	855.6	-555.3	1,015.5	0.00	0.00	0.00	
4,100.0	17.39	327.01	3,943.9	880.7	-571.6	1,045.3	0.00	0.00	0.00	
4,200.0	17.39	327.01	4,039.3	905.8	-587.9	1,075.0	0.00	0.00	0.00	
4,300.0	17.39	327.01	4,134.7	930.9	-604.2	1,104.8	0.00	0.00	0.00	
4,400.0	17.39	327.01	4,230.2	955.9	-620.4	1,134.5	0.00	0.00	0.00	
4,500.0	17.39	327.01	4,325.6	981.0	-636.7	1,164.3	0.00	0.00	0.00	

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<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 11A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,600.0	17.39	327.01	4,421.0	1,006.1	-653.0	1,194.1	0.00	0.00	0.00	
4,602.1	17.39	327.01	4,423.0	1,006.6	-653.3	1,194.7	0.00	0.00	0.00	
<b>WASATCH_G_ZONE.MBL</b>										
4,700.0	17.39	327.01	4,516.5	1,031.2	-669.3	1,223.8	0.00	0.00	0.00	
4,800.0	17.39	327.01	4,611.9	1,056.2	-685.5	1,253.6	0.00	0.00	0.00	
4,900.0	17.39	327.01	4,707.3	1,081.3	-701.8	1,283.3	0.00	0.00	0.00	
4,904.9	17.39	327.01	4,712.0	1,082.5	-702.6	1,284.8	0.00	0.00	0.00	
<b>FORT_UNION.MBL</b>										
5,000.0	17.39	327.01	4,802.7	1,106.4	-718.1	1,313.1	0.00	0.00	0.00	
5,100.0	17.39	327.01	4,898.2	1,131.5	-734.4	1,342.9	0.00	0.00	0.00	
5,200.0	17.39	327.01	4,993.6	1,156.5	-750.6	1,372.6	0.00	0.00	0.00	
5,300.0	17.39	327.01	5,089.0	1,181.6	-766.9	1,402.4	0.00	0.00	0.00	
5,400.0	17.39	327.01	5,184.4	1,206.7	-783.2	1,432.1	0.00	0.00	0.00	
5,500.0	17.39	327.01	5,279.9	1,231.7	-799.5	1,461.9	0.00	0.00	0.00	
5,600.0	17.39	327.01	5,375.3	1,256.8	-815.7	1,491.7	0.00	0.00	0.00	
5,700.0	17.39	327.01	5,470.7	1,281.9	-832.0	1,521.4	0.00	0.00	0.00	
5,800.0	17.39	327.01	5,566.2	1,307.0	-848.3	1,551.2	0.00	0.00	0.00	
5,900.0	17.39	327.01	5,661.6	1,332.0	-864.6	1,580.9	0.00	0.00	0.00	
6,000.0	17.39	327.01	5,757.0	1,357.1	-880.8	1,610.7	0.00	0.00	0.00	
6,100.0	17.39	327.01	5,852.4	1,382.2	-897.1	1,640.5	0.00	0.00	0.00	
6,200.0	17.39	327.01	5,947.9	1,407.3	-913.4	1,670.2	0.00	0.00	0.00	
6,300.0	17.39	327.01	6,043.3	1,432.3	-929.7	1,700.0	0.00	0.00	0.00	
6,390.9	17.39	327.01	6,130.1	1,455.1	-944.5	1,727.0	0.00	0.00	0.00	
6,400.0	17.12	327.01	6,138.7	1,457.4	-945.9	1,729.7	3.00	-3.00	0.00	
6,500.0	14.12	327.01	6,235.0	1,480.0	-960.6	1,756.5	3.00	-3.00	0.00	
6,600.0	11.12	327.01	6,332.6	1,498.3	-972.5	1,778.3	3.00	-3.00	0.00	
6,700.0	8.12	327.01	6,431.2	1,512.3	-981.6	1,794.9	3.00	-3.00	0.00	
6,783.4	5.62	327.01	6,514.0	1,520.7	-987.0	1,804.8	3.00	-3.00	0.00	
<b>OHIO_CREEK.MBL</b>										
6,800.0	5.12	327.01	6,530.5	1,522.0	-987.8	1,806.4	3.00	-3.00	0.00	
6,900.0	2.12	327.01	6,630.3	1,527.3	-991.3	1,812.7	3.00	-3.00	0.00	
6,970.7	0.00	0.00	6,701.0	1,528.4	-992.0	1,814.0	3.00	-3.00	0.00	
7,000.0	0.29	250.00	6,730.3	1,528.4	-992.1	1,814.0	1.00	1.00	0.00	
7,020.7	0.50	250.00	6,751.0	1,528.3	-992.2	1,814.1	1.00	1.00	0.00	
<b>WILLIAMS_FORK.MBL</b>										
7,070.7	1.00	250.00	6,801.0	1,528.1	-992.8	1,814.3	1.00	1.00	0.00	
<b>TOP_GAS.MBL</b>										
7,100.0	1.29	250.00	6,830.3	1,527.9	-993.4	1,814.4	1.00	1.00	0.00	
7,200.0	2.29	250.00	6,930.2	1,526.8	-996.3	1,815.4	1.00	1.00	0.00	
7,294.7	3.24	250.00	7,024.9	1,525.3	-1,000.6	1,816.9	1.00	1.00	0.00	
7,300.0	3.24	250.00	7,030.1	1,525.2	-1,000.9	1,817.0	0.00	0.00	0.00	
7,400.0	3.24	250.00	7,129.9	1,523.2	-1,006.2	1,818.8	0.00	0.00	0.00	
7,500.0	3.24	250.00	7,229.8	1,521.3	-1,011.5	1,820.5	0.00	0.00	0.00	
7,600.0	3.24	250.00	7,329.6	1,519.4	-1,016.8	1,822.3	0.00	0.00	0.00	
7,700.0	3.24	250.00	7,429.5	1,517.4	-1,022.1	1,824.1	0.00	0.00	0.00	
7,800.0	3.24	250.00	7,529.3	1,515.5	-1,027.4	1,825.9	0.00	0.00	0.00	
7,900.0	3.24	250.00	7,629.1	1,513.6	-1,032.8	1,827.7	0.00	0.00	0.00	
8,000.0	3.24	250.00	7,729.0	1,511.6	-1,038.1	1,829.5	0.00	0.00	0.00	
8,100.0	3.24	250.00	7,828.8	1,509.7	-1,043.4	1,831.2	0.00	0.00	0.00	
8,200.0	3.24	250.00	7,928.7	1,507.8	-1,048.7	1,833.0	0.00	0.00	0.00	
8,300.0	3.24	250.00	8,028.5	1,505.8	-1,054.0	1,834.8	0.00	0.00	0.00	
8,400.0	3.24	250.00	8,128.3	1,503.9	-1,059.3	1,836.6	0.00	0.00	0.00	
8,500.0	3.24	250.00	8,228.2	1,502.0	-1,064.6	1,838.4	0.00	0.00	0.00	
8,600.0	3.24	250.00	8,328.0	1,500.0	-1,069.9	1,840.2	0.00	0.00	0.00	

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<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 11A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,700.0	3.24	250.00	8,427.9	1,498.1	-1,075.2	1,841.9	0.00	0.00	0.00	
8,800.0	3.24	250.00	8,527.7	1,496.2	-1,080.6	1,843.7	0.00	0.00	0.00	
8,900.0	3.24	250.00	8,627.5	1,494.2	-1,085.9	1,845.5	0.00	0.00	0.00	
9,000.0	3.24	250.00	8,727.4	1,492.3	-1,091.2	1,847.3	0.00	0.00	0.00	
9,100.0	3.24	250.00	8,827.2	1,490.4	-1,096.5	1,849.1	0.00	0.00	0.00	
9,200.0	3.24	250.00	8,927.1	1,488.4	-1,101.8	1,850.9	0.00	0.00	0.00	
9,300.0	3.24	250.00	9,026.9	1,486.5	-1,107.1	1,852.6	0.00	0.00	0.00	
9,400.0	3.24	250.00	9,126.7	1,484.6	-1,112.4	1,854.4	0.00	0.00	0.00	
9,464.4	3.24	250.00	9,191.0	1,483.3	-1,115.8	1,855.6	0.00	0.00	0.00	
<b>CAMEO.MBL</b>										
9,500.0	3.24	250.00	9,226.6	1,482.6	-1,117.7	1,856.2	0.00	0.00	0.00	
9,600.0	3.24	250.00	9,326.4	1,480.7	-1,123.0	1,858.0	0.00	0.00	0.00	
9,700.0	3.24	250.00	9,426.3	1,478.8	-1,128.4	1,859.8	0.00	0.00	0.00	
9,800.0	3.24	250.00	9,526.1	1,476.8	-1,133.7	1,861.6	0.00	0.00	0.00	
9,900.0	3.24	250.00	9,625.9	1,474.9	-1,139.0	1,863.3	0.00	0.00	0.00	
10,000.0	3.24	250.00	9,725.8	1,473.0	-1,144.3	1,865.1	0.00	0.00	0.00	
10,100.0	3.24	250.00	9,825.6	1,471.0	-1,149.6	1,866.9	0.00	0.00	0.00	
10,161.5	3.24	250.00	9,887.0	1,469.8	-1,152.9	1,868.0	0.00	0.00	0.00	
<b>ROLLINS.MBL</b>										
10,200.0	3.24	250.00	9,925.5	1,469.1	-1,154.9	1,868.7	0.00	0.00	0.00	
10,300.0	3.24	250.00	10,025.3	1,467.2	-1,160.2	1,870.5	0.00	0.00	0.00	
10,336.8	3.24	250.00	10,062.0	1,466.5	-1,162.2	1,871.1	0.00	0.00	0.00	
<b>TD.MBL - BHL 219°FNL, 1317°FWL, SEC.9</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL 1687°FNL, 2478°FV - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	14,404,645.40	2,436,124.43	39.632209	-108.174097	
BHL 219°FNL, 1317°FV - plan hits target center - Ellipse (radii L200.0 W100.0 on 250.0 azi)	0.00	0.00	10,062.0	1,466.5	-1,162.2	14,406,075.01	2,434,916.28	39.636235	-108.178224	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
2,586.9	2,500.0	9 5/8"	9-5/8	12-1/4		

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 11A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 11A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,087.1	2,023.0	WASATCH.MBL		0.00		
4,602.1	4,423.0	WASATCH_G_ZONE.MBL		0.00		
4,904.9	4,712.0	FORT_UNION.MBL		0.00		
6,783.4	6,514.0	OHIO_CREEK.MBL		0.00		
7,020.7	6,751.0	WILLIAMS_FORK.MBL		0.00		
7,070.7	6,801.0	TOP_GAS.MBL		0.00		
9,464.4	9,191.0	CAMEO.MBL		0.00		
10,161.5	9,887.0	ROLLINS.MBL		0.00		
10,336.8	10,062.0	TD.MBL		0.00		